

**Notice of Allowability**

Application No.

10/695,977

Examiner

Kamran Afshar, 703-305-7373

Applicant(s)

LADERMAN, RAPHAEL

Art Unit

2681

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-26.
3. ☒ The drawings filed on 28 October 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_

*E. L. Moise*  
EMMANUEL L. MOISE  
PRIMARY EXAMINER

## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 1-26 are allowed.

The following is an examiner's statement of reasons for allowance: 1-26.

With respect to claim 1, Goode (WO 02/49324 A1) is the closest prior art to the application invention, which discloses a headset arrangement for a communication device; and a connector that receives/transmits an electrical signal and a headset with a loudspeaker and microphone. A converter is connected to the connector and converts the electrical signal to an optical signal. A second converter in the headset converts between the electrical signal from the headset and an optical signal. A fiber-optic cable transmits the optical signal between the two converters (See e.g. Abstract, Page 2, Lines 10-22, Figs 1-2).

Ruschin (U.S. Pub. No.: 2001/0034253 A1) is the second closest prior art, which discloses a headset based on optics and more precisely fiber-optic communications for speaking into and listening via a cellular communications unit. The fiber-optic cable connects the microphone and earphone of the headpiece to the telephone for avoiding the conduction of radio frequency electromagnetic signal and reducing possible harm to biological tissue in the head due to the radio frequency electromagnetic radiation (See e.g. Abstract, Page 1, Paragraph [0006], Fig. 1). However both Ruschin and Goode fail teaching the second converter coupled with a second selected one of the first interface and the second interface different from the first selected one, wherein the first and second converters are coupled with different interfaces; and an optical coupling between the first and second converters to communicate the optical communication therebetween and to reduce transferred radio frequency electromagnetic radiation therebetween.

With respect to claim 16, the prior art of record fails to disclose or render obvious that the first converter coupled with one of the first interface and second interface; receiving the optical communication by a second converter and in response generating a second communication, the second converter

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coupled with one of the second converter coupled with one of the first interface and the second interface, wherein the first and second converters are coupled with different interfaces; and communicating the optical communication using an optical coupling between said first and second converters to reduce transferred radiation therebetween.

With respect to claim 17, the prior art of record fails to disclose or render obvious that a first converter to receive the communication and in response to generate an optical communication, the first converter coupled with one of the first interface and second interface; a second converter to receive the optical communication and in response to generate a second communication, the second converter coupled with one of the first interface and the second interface, wherein the first and second converters are coupled with different interfaces; and an optical coupling between the first and second converters to communicate said optical communication therebetween and to reduce transferred radiation therebetween.

With respect to claim 18, the prior art of record fails to disclose or render obvious that a first converter receiving a first electrical signal carrying an information content and generating an optical signal carrying substantially the same information content as the electrical signal in response thereto; a second converter receiving the optical signal and generating a second electrical signal and carrying substantially the same information as the optical signal; and an optical coupling between the first and second converters to communicate the optical signal there between, the optical coupling operating substantially without radiating radio frequency electromagnetic radiation to regions adjacent the optical coupling.

With respect to claim 19, the prior art of record fails to disclose or render obvious that an optical coupling extending between the first and second interfaces and having no complete electrically conductive path there between; a first connector jack for mateably coupling the headset adapter with an external headset having a least an earphone, a speaker, and a microphone; a second connector jack for mateably coupling the headset adapter with another device; and the first and second connector jacks configured to optically or electrically couple to the headset and the device.

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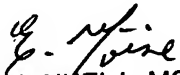
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Conclusion**

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Kamran Afshar whose telephone number is (703) 305-7373. The examiner can be reached on Monday-Friday.

If attempts to reach the examiner by the telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached @ (703) 306-0003. The fax number for the organization where this application or proceeding is assigned is (703) 872-9306 for all communications.

  
**Kamran Afshar**

  
**EMMANUEL L. MOISE**  
**PRIMARY EXAMINER**